

Preliminary Planning Sheet Grade 2 – Autumn Leaves

Domain(s)

Operations and Algebraic Thinking

Standard(s)

2.OA.A.1

Mathematical Practices

MP.1 MP.3 MP.4 MP.6

Major Underlying Mathematical Concepts

- Number sense to 78
- Result unknown
- Subtraction/Addition

Problem Solving Strategies

- Model (manipulatives)
- Diagram/Key
- Table
- Number line
- Tally/Tallies
- Number/Hundred chart

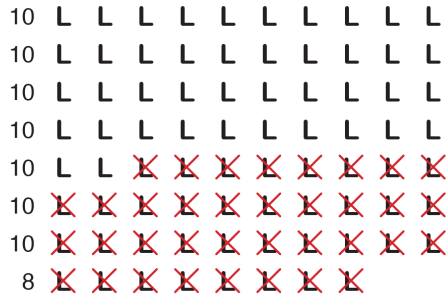
Formal Mathematical Language and Symbolic Notation

- Model
- Diagram/Key
- Number line
- Table
- Tally/Tallies
- Number/Hundred chart
- Pattern
- Most/Least
- More than (>)/Greater than (>)/Less than (<)
- Equivalent/Equal to
- Dozen
- Addition
- Total/Sum
- Difference
- Ones, tens
- Place value
- Unknown
- Subtraction
- Tally chart
- Amount
- Equation
- 8 x 8
- Array
- Row
- Odd/Even

Possible Solution(s)

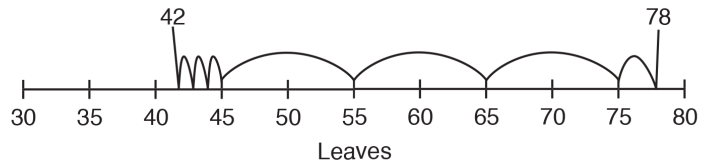
42 leaves are still on the tree.

Key	
L	is 1 leaf
X	is 1 fallen leaf



$$78 - 36 = \square \quad \bigg/ \quad 36 + \square = 78$$

$$\begin{array}{r} 78 - 36 \\ 70 - 30 = 40 \\ 8 - 6 = +2 \\ \hline 42 \end{array} \qquad \begin{array}{r} 78 \\ - 36 \\ \hline 42 \end{array}$$



Possible Connections

Below are some examples of mathematical connections. Your students may discover some that are not on this list.

- 1 dozen is 12.
- 36 = 3 dozen.
- An even number of leaves were on the tree at the start. An even number of leaves blow off. An even number remain.
- If only 30 leaves blow off the tree, 4 dozen leaves would still be on the tree.
- More leaves are left on the tree than blew off.
- If the 8th row had 2 more leaves, it would be an 8 x 10 array.
- Solve more than one way to verify the answer.
- Relate to a similar task and state a math link.